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<u>L6</u>	'4799156'.pn.	1	<u>L6</u>
<u>L5</u>	'5394522'.pn.	1	<u>L5</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L4</u>	I3 not @py>1999	13	<u>L4</u>
<u>L3</u>	L1 and (category or categories) and (items or products or merchandise)	233	<u>L3</u>
<u>L2</u>	L1 and (category or categories) and (items or products)	233	<u>L2</u>
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1 [Content-based retrieval for multimedia databases: A motion based scene tree for browsing and retrieval of compressed videos](#)



Haoran Yi, Deepu Rajan, Liang-Tien Chia

November 2004 **Proceedings of the 2nd ACM international workshop on Multimedia databases MMDB '04****Publisher:** ACM PressFull text available: [pdf\(770.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a fully automatic content-based approach for browsing and retrieval of MPEG-2 compressed video. The first step of the approach is the detection of shot boundaries based on motion vectors available from the compressed video stream. The next step involves the construction of a scene tree from the shots obtained earlier. The scene tree is shown to capture some semantic information as well as to provide a construct for hierarchical browsing of compressed videos. Finally, we b ...

Keywords: shot boundary detection, video browsing, video indexing, video retrieval, video similarity

2 [Paper session II: applications: The PIBE personalizable image browsing engine](#)



Ilaria Bartolini, Paolo Ciaccia, Marco Patella

June 2004 **Proceedings of the 1st international workshop on Computer vision meets databases CVDB '04****Publisher:** ACM PressFull text available: [pdf\(743.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper we describe PIBE, a new Personalizable Image Browsing Engine that allows an effective visual exploration of large image collections combining computer vision and database techniques. The principal features of PIBE include the possibility of modifying the browsing structure by means of graphical personalization actions provided by the visual interface, and of persistently storing such customizations for subsequent browsing sections. The PIBE hierarchical browsing structure, called B ...

3 [Distance browsing in spatial databases](#)



Gísli R. Hjaltason, Hanan Samet

June 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 2**Publisher:** ACM PressAdditional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(460.81 KB\)](#)

[terms](#)

We compare two different techniques for browsing through a collection of spatial objects stored in an R-tree spatial data structure on the basis of their distances from an arbitrary spatial query object. The conventional approach is one that makes use of a k-nearest neighbor algorithm where k is known prior to the invocation of the algorithm. Thus if $m < k$ neighbors are needed, the k-nearest neighbor alg ...

Keywords: R-trees, distance browsing, hierarchical spatial data structures, nearest neighbors, ranking

4 Video browsing using 3D video content trees



Knut Manske

November 1998 **Proceedings of the 1998 workshop on New paradigms in information visualization and manipulation NPIV '98**

Publisher: ACM Press

Full text available:  [pdf\(606.01 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: key frames, ranking, video browsing, video indexing, visual index


5 The effect of information scent on searching information: visualizations of large tree structures



Peter Pirolli, Stuart K. Card, Mija M. Van Der Wege

May 2000 **Proceedings of the working conference on Advanced visual interfaces AVI '00**

Publisher: ACM Press

Full text available:  [pdf\(1.92 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Focus + context information visualizations have sought to amplify human cognition by increasing the amount of information immediately available to the user. We study how the focus + context distortion of the Hyperbolic Tree browser affects information foraging behavior in a task similar to the CHI '97 Browse Off. In comparison to a more conventional browser, Hyperbolic users searched more nodes, searched at a faster rate, and showed more learning. However, the performance of the Hyperbolic ...

Keywords: focus + context, hyperbolic tree, information foraging, information visualization

6 Managing voice input: The benefits of augmenting telephone voice menu navigation with visual browsing and search



Min Yin, Shumin Zhai

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

Full text available:  [pdf\(541.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automatic interactive voice response (IVR) based telephone routing has long been recognized as a frustrating interaction experience. This paper presents a series of experiments examining the benefits of augmenting telephone voice menus with coordinated visual displays and keyword search. The first experiment qualitatively studied callers' experience of having a visual menu on a screen in synchronization with the telephone voice menu tree navigation. The second experiment quantitatively measured ...

Keywords: instant messaging, integrated user experience, keyword search, multi-modal interaction, telephone, visual manual browsing, voice menu

7 The effects of information scent on visual search in the hyperbolic tree browser



Peter Pirolli, Stuart K. Card, Mija M. Van Der Wege

March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(2.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Hyperbolic Tree is a focus + context information visualization that has been developed to amplify users' ability to navigate large tree-structured information systems. Information scent is a theoretical construct that captures one kind of interaction between task and display. Information scent is provided by task-relevant display cues, such as node labels on a tree that influence a user's visual search behavior and navigation decisions. An empirical Accuracy of Scent (AOS) score was developed ...

Keywords: Hyperbolic Tree, Information visualization, fisheye-lens visual search, focus+context, information foraging, information scent, interactive computer graphics

8 Browsing large digital library collections using classification hierarchies



S. Geffner, D. Agrawal, A. El Abbadi, T. Smith

November 1999 **Proceedings of the eighth international conference on Information and knowledge management CIKM '99**

Publisher: ACM Press

Full text available: pdf(998.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Summarization of intermediary query result sets plays an important role when users browse through digital library collections. Summarization enables users to quickly digest the results of their queries, and provides users with important information they can use to narrow their search interactively. Techniques from the field of data analysis may be applied to the problem of generating summaries of query results efficiently. Such techniques should permit the incorporation of classification hi ...

Keywords: aggregation, browsing, classification, digital libraries, searching, summarization

9 Client-side accessibility: Dialog generation for voice browsing



Zan Sun, Amanda Stent, I. V. Ramakrishnan

May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility? W4A**

Publisher: ACM Press

Full text available: pdf(474.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present our voice browser system, *HearSay*, which provides efficient access to the World Wide Web to people with visual disabilities. HearSay includes content-based segmentation of Web pages and a speech-driven interface to the resulting content. In our latest version of HearSay, we focus on general-purpose browsing. In this paper we describe HearSay's new dialog interface, which includes several different browsing strategies, gives the user control over the amount of info ...

10 Usability and accessibility: Hearsay: enabling audio browsing on hypertext content

I. V. Ramakrishnan, Amanda Stent, Guizhen Yang

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04****Publisher:** ACM PressFull text available: [pdf\(974.86 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present HearSay, a system for browsing hypertext Web documents via audio. The HearSay system is based on our novel approach to automatically creating audio browsable content from hypertext Web documents. It combines two key technologies: (1) automatic partitioning of Web documents through tightly coupled structural and semantic analysis, which transforms raw HTML documents into semantic structures so as to facilitate audio browsing; and (2) VoiceXML, an already standardized tech ...

Keywords: HTML, VoiceXML, World Wide Web, audio browser, semantic analysis, structural analysis, user interface

11 Accordion summarization for end-game browsing on PDAs and cellular phones

Orkut Buyukkokten, Hector Garcia-Molina, Andreas Paepcke

March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '01****Publisher:** ACM PressFull text available: [pdf\(909.94 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We demonstrate a new browsing technique for devices with small displays such as PDAs or cellular phones. We concentrate on end-game browsing, where the user is close to or on the target page. We make browsing more efficient and easier by Accordion Summarization. In this technique the Web page is first represented as a short summary. The user can then drill down to discover relevant parts of the page. If desired, keywords can be highlighted and exposed automatically. We discuss our technique ...

Keywords: HTML, PDA (Personal Digital Assistant), WAP, WML, WWW (World-Wide Web)

12 Student posters: Bubble trees the visualization of hierarchical information structures

Richard Boardman

April 2000 **CHI '00 extended abstracts on Human factors in computing systems CHI '00****Publisher:** ACM PressFull text available: [pdf\(178.75 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

A tree visualization mechanism is proposed, based on the natural property of trees to recursively sub-categorize themselves into sub-trees. Each sub-tree is graphically represented as a bubble, which aggregates detail by enclosing lower-level information. Navigation and information retrieval are facilitated through an elegant set of browsing interactions. The interface is useful for tasks where users are required to develop a mental model of a classification system. The interactive nature of bub ...

Keywords: aggregation, categorization, enclosure, focus+context, navigation, tree visualization

13 Work-in-progress: PygmyBrowse: a small screen tree browser

Zvi Band, Ryen W. White

April 2006 **CHI '06 extended abstracts on Human factors in computing systems CHI '06****Publisher:** ACM PressFull text available: pdf(288.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present PygmyBrowse, a browser that allows users to navigate a tree data structure in a limited amount of display space. A pilot evaluation of PygmyBrowse was conducted, and results suggest that it reduces task completion times and increases user satisfaction over two alternative node-link tree browsers.

Keywords: browsing, navigation, trees**14** The development of an online video browsing system

Jesse Jin, Ruiyi Wang

May 2001 **Proceedings of the Pan-Sydney area workshop on Visual information processing - Volume 11 VIP '01****Publisher:** Australian Computer Society, Inc.Full text available: pdf(409.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a system designed to allow efficient retrieving, browsing and real time playing of videos through the Internet using a web browser. The system consists of a web site as well as tools to facilitate browsing, searching and video streaming. At the website, users can view video structures and clip details, search for segments in a video by key words and play video clips in real time according to their own connection speeds. In this paper, various approaches to each component of the ...

Keywords: content based video retrieval, video encoding, webcasting**15** End-user perspectives and measurement in web engineering: Towards effective browsing of large scale social annotations

Rui Li, Shenghua Bao, Yong Yu, Ben Fei, Zhong Su

May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07****Publisher:** ACM PressFull text available: pdf(437.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is concerned with the problem of browsing social annotations. Today, a lot of services (e.g., Del.icio.us, Flickr) have been provided for helping users to manage and share their favorite URLs and photos based on social annotations. Due to the exponential increasing of the social annotations, more and more users, however, are facing the problem how to effectively find desired resources from large annotation data. Existing methods such as tag cloud and annotation matching work well o ...

Keywords: annotation browsing, clustering, evaluation, social annotation**16** Hyperdocuments as automata: verification of trace-based browsing properties by model checking

P. David Stotts, Richard Furuta, Cyrano Ruiz Cabarrus

January 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 1**Publisher:** ACM Press

Additional Information:

Full text available:  pdf(474.20 KB)

[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a view of hyperdocuments in which each document encodes its own browsing semantics in its links. This requires a mental shift in how a hyperdocument is thought of abstractly. Instead of treating the links of a document as defining a static directed graph, they are thought of as defining an abstract program, termed the links-automaton of the document. A branching temporal logic notation, termed HTL*, is introduced for specifying properties a document should exhibit ...

Keywords: Petri nets, browsing semantics, hypermedia, hypertext, model checking, temporal logic

17 Poster Session: Slicing*-tree based web page transformation for small displays



Xiangye Xiao, Qiong Luo, Dan Hong, Hongbo Fu

October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**

Publisher: ACM Press

Full text available:  pdf(71.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new Web page transformation method for browsing on mobile devices with small displays. In our approach, an original web page that does not fit into the screen is transformed into a set of pages, each of which fits into the screen. This transformation is done through slicing the original page. The resulting set of transformed pages form a multi-level tree structure, called a slicing*-tree, in which an internal node consists of a thumbnail image with hyperlinks and a leaf node is a bl ...

Keywords: VIPS algorithm, mall displays, proxy, slicing tree, thumbnails, web browsing, web page adaptation

18 Visualization for libraries: Exploring digital libraries: integrating browsing, searching, and visualization



Rao Shen, Naga Srinivas Vemuri, Weiguo Fan, Ricardo da S. Torres, Edward A. Fox

June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**

Publisher: ACM Press

Full text available:  pdf(628.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Exploring services for digital libraries (DLs) include two major paradigms, browsing and searching, as well as other services such as clustering and visualization. In this paper, we formalize and generalize DL exploring services within a DL theory. We develop theorems to indicate that browsing and searching can be converted or mapped to each other under certain conditions. The theorems guide the design and implementation of exploring services for an integrated archaeological DL, ETANA-DL. Its in ...

Keywords: browsing, exploring, integration, searching, visualization

19 Content consumption: Context browsing with mobiles - when less is more



Yevgen Borodin, Jalal Mahmud, I.V. Ramakrishnan

June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07**

Publisher: ACM Press

Full text available:  pdf(720.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Except for a handful of "mobile" Web sites, the Web is designed for browsing using

personal computers with large screens capable of fully rendering the content of most Web pages. Browsing with handhelds, such as small-screen PDA's or cell phones, usually involves a lot of horizontal and vertical scrolling, thus making Web browsing time-consuming and strenuous. At the same time, one is often only interested in a fragment of a Web page, which again may not fit on the limited-size screens of mobi ...

Keywords: CMo, PDA, content adaptation, context-directed browsing, mobile browsing, partitioning, semantic blocks

20 Smarter browsing: Csurf: a context-driven non-visual web-browser



Jalal U. Mahmud, Yevgen Borodin, I. V. Ramakrishnan

May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**

Publisher: ACM Press

Full text available: pdf(634.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web sites are designed for graphical mode of interaction. Sighted users can "cut to the chase" and quickly identify relevant information in Web pages. On the contrary, individuals with visual disabilities have to use screen-readers to browse the Web. As screen-readers process pages sequentially and read through everything, Web browsing can become strenuous and time-consuming. Although, the use of shortcuts and searching offers some improvements, the problem still remains. In this paper, we addr ...

Keywords: CSurf, HearSay, context, non-visual, partitioning, screen-reader, semantic blocks, voice browser, web accessibility

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Content-Based TV Sports Video Retrieval Based on Audio-Visual Feature Information**
Liu Huayong;
[Web Intelligence, 2004. WI 2004. Proceedings. IEEE/WIC/ACM International C](#)
20-24 Sept. 2004 Page(s):481 - 484
Digital Object Identifier 10.1109/WI.2004.10107
[AbstractPlus](#) | Full Text: [PDF](#)(128 KB) IEEE CNF
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- ☐ 2. **Expand-Ahead: A Space-Filling Strategy for Browsing Trees**
McGuffin, M.J.; Davison, G.; Balakrishnan, R.;
[Information Visualization, 2004. INFOVIS 2004. IEEE Symposium on](#)
10-12 Oct. 2004 Page(s):119 - 126
Digital Object Identifier 10.1109/INFVIS.2004.21
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